

POREX® Virtek™

IP-Rated Protection Vents



Key Benefits

- IP 64, 65, 66, 67 & 68 rated
- UL 94 V-0, 5VA and UL 746C f2 approvals
- Robust sintered porous structure (safe to handle)
- Compatible with ultrasonic and thermal welding, as well as insert molding
- UV and weather resistant
- Chemically inert (Pure PTFE)
- Thermally resistant (500°F / 260°C continuous use)
- No membrane support backing required
- Omni-directional flow (no backward installation)
- High tensile strength
- Resistance to thermal cycling fatigue
- Standard or custom sizes available
- Available in rolls, slit rolls, sheets, discs or adhesive backed shapes

Faster, better & cost-effective functional components.

POREX Virtek™ PTFE Protection Vents used in sealed devices allow pressure equalization and ventilization due to temperature changes and minimizes condensation while keeping dust, dirt, and liquid moisture out. POREX Virtek™ sintered PTFE membrane is UL 94 V-0 and UL 746C listed, tested to meet all IP ratings, and can meet NEMA or other test standards.

POREX Virtek™ PTFE Membrane Application Materials — Typical Properties

| Application Material | IP Rating † | WEP mbar | Airflow l/hr/cm² @70mbar | Filtration Efficiency** >99.99% | Thickness mm | Max Operating Temp °C | UL-94/746C* | Salt Fog |
|----------------------|-------------|----------|--------------------------|---------------------------------|--------------|-----------------------|-------------|----------|
| PMV10 | 64,67 | 270 | 125 | 0.5 µ | 0.13 | 260°C | V-0/f2 | No pen. |
| PMV10L*** | 64,67 | 270 | 85 | 0.5 µ | 0.30 | 100°C | - | No pen. |
| PMV15 | 64,67 | 380 | 70 | 0.4 µ | 0.18 | 260°C | V-0/f2 | No pen. |
| ‡PMV15T | 64,67 | 380 | 70 | 0.4 µ | 0.18 | 260°C | - | No pen. |
| PMV20 | 64,65,68 | 520 | 34 | 0.1 µ | 0.25 | 260°C | V-0/f2 | No pen. |
| PMV25 | 65,67,68 | 750 | 15 | 0.2 µ | 0.10 | 260°C | V-0/f2 | No pen. |
| PMV30 | 65,66,67,68 | 1000 | 4.5 | 0.1 µ | 0.25 | 260°C | V-0/f2 | No pen. |

WEP = Water Entry Pressure
 RoHS, WEEE, REACH Compliant
 ** According to IEST RP-CC007.2 2009
 ***Laminated polyolefin mesh backing

† IEC std. 60529, IP 68 is a user defined test; will pass condition dependent
 ‡ Oleophobic Grade 8, AATCC TM 118

Properties are typical and not meant for specifications. Properties for membrane only, selected options and adhesives may affect properties.

Testing results available upon request

POREX Virtek™ PTFE Vent Plugs — Typical Properties

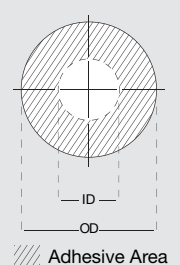
| Part # | Diameter mm | Thickness mm | WEP mbar | IP Rating † | Vent Airflow l/hr/cm² @70mbar | Max Operating Temp °C | UL-94 Rating |
|----------|-------------|--------------|----------|-------------|-------------------------------|-----------------------|--------------|
| PD103032 | 3.2 | 3.0 | 450 | 64,67,68 | 1.0 | 260°C | 5VA, f1 |

- Plugs meet UL-94 5VA and F1 rating.
- Assembly methods include: press fit, over-moulding, compression seal, or flange welding.

POREX Virtek™ PTFE Protection Vents

STOCK PRODUCT OFFERING - ADHESIVE DISCS

| Dimensions OD/ID (mm)* | Material Series | | | |
|---------------------------|-----------------|--------|--------|--------|
| | PMV10L | PMV15 | PMV20 | PMV30 |
| 7.0/3.0 (N) | PMV10LN | PMV15N | PMV20N | PMV30N |
| 10.0/7.0 (I) | PMV10LI | PMV15I | PMV20I | PMV30I |
| 12.7/7.1 (W) | PMV10LW | PMV15W | PMV20W | PMV30W |
| 20.0/13.0 (C) | PMV10LC | PMV15C | PMV20C | PMV30C |



| Dimensions OD/ ID (mm)* | Material Series | |
|----------------------------|-----------------|------------------------------------|
| | PMV15 | Feature |
| 12.7/7.1 (W) | PMV15WH | High temperature adhesive |
| 12.7/7.1 (W) | PMV15TWH | Oleophobic with high temp adhesive |

*1000 discs/roll
N, I, W & C are size codes.

Many other standard and custom sizes available.
Please contact your local POREX® representative for availability
or email us at info.porex.amrs@filtrationgroup.com



Founded in 1961, POREX® is a pioneer and global leader in the development and manufacturing of sintered porous plastic products. POREX® is widely recognized for its material science expertise and proprietary manufacturing processes. We serve thousands of customers across more than 65 countries via operations in North America, Europe and Asia.

Constant innovation, outstanding technological resources, commitment to quality and dedication to customer service distinguish POREX® as the standard of performance.

For more information about Porex Corporation, visit porex.com or email us at electronics@porex.com.

Available Options and Codes

| | |
|--------------------------------|---|
| Standard Acrylic Adhesive: | -40 to 85°C continuous. Approx. 190 micron thick |
| High Temperature Adhesive (H): | -40 to 150°C continuous. Approx. 130 micron thick |
| Oleophobic Treatment (T): | AATCC TM 118 test standard |
| Laminated Backing (L): | Polyolefin mesh support backing |
| Dimensions: | For a list of available dimensions please contact POREX |
| Liner: | Transparent film (standard) or Silicone release paper |
| Presentation: | Single standard; or multiple depending on OD |



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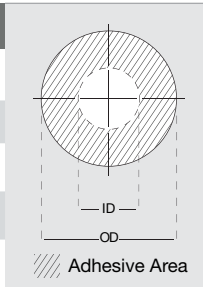
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